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QC ABSTRACT

Namcof Work: Improvements of CC drains covering Slab in Krishnegowda Layout Cross Roads in Dasarahalli ward no 15

Sl. No.	Item	Quantity As Per BOQ	Required No's of testes	Actual No's of testes	Testes	Frequency
1	1:3:6	70.2	1	1	Cement Sand, Aggregates	One Test Per Lot
2	M20	147.42 Cum	6	6	Concrete Cube Compressive Strength	-
3	Steel	7.37 Tonne	1	1	-	-
4	Slab (100mm)	185.40 Sqm	1	1	Concrete Core Compressive Strength	

Cubes

0-5 Cum	1Set
6-15 Cum	2Set
16-30 Cum	3Set
31-50 Cum	4Set

Add 1set for extra 50Cum

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ಜಿ. ದಾಸರಹಳ್ಳಿ ಉಪ ವಿಭಾಗ
ಕಾವೇರಿಪುರ. ಜಿ.ಬಿ.ಎಂ.ಪಿ

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
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Job No.: CACE/BBMP/VW/W.No.15/2021-22 Date: 20.04.2022

TEST REPORT

CLIENT	:	**Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
AGENCY	:	**Sri. Vishwanatha ,** Contractor, Bangalore.
NAME OF THE WORK	:	Improvements of CC drains covering Slab in Krishnegowda Layout Cross Roads in Dasarahalli ward no 15
SAMPLE ID	:	Cement (Zuari OPC 53 Grade)
DATE OF MANUFACTURE		March- 2022
DATE OF TESTING		18.04.2022 to 20.04.2022
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269-2015
1	a) Initial Setting Time	IS-4031 (Part -5)	140 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	350 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	30.00 %	-

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Authorised Signatory

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Job No.: CACE/BBMP/VW/W.No.15/2021-22 Date : 20.04.2022

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Vishwanatha ,** Contractor, Bangalore.

Name of Work : Improvements of CC drains covering Slab in Krishnegowda Layout Cross Roads in Dasarahalli ward no 15

Date of Testing : 20.04.2022

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : Sand

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	84	8.40	8.40	91.6	90-100
2.36	128	12.80	21.20	78.8	75-100
1.18	185	18.50	39.70	60.3	55-90
600 Micron	155	15.50	55.20	44.8	35-59
300 Micron	220	22.00	77.20	22.8	8-30
150 Micron	139	13.90	91.10	8.9	0-10

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ಬಿಬಿಎಂಪಿ, ಬೆಂ.ಮ.ನ.ಪ.
ಬೆಂಗಳೂರು-560073

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Job No.: CACE/BBMP/VW/W No 15/2021-22

Date 20/04/2022

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Vishwanatha ,** Contractor, Bangalore.

Name of Work : Improvements of CC drains covering Slab in Krishnegowda Layout Cross Roads in Dasarahalli ward no 15

Date of Testing : 20.04.2022

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	189	3.8	3.8	96.2	95-100
10	2436	48.7	52.5	47.5	25-55
4.75	1986	39.7	92.2	7.8	0-10

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Job No.: CACE/BBMP/VW/W.No.15/2021-22

Date : 20.04.2022

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Vishwanatha ,** Contractor, Bangalore.

Name of Work : Improvements of CC drains covering Slab in Krishnegowda Layout Cross Roads in Dasarahalli ward no 15

Date of Testing : 20.04.2022

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	184	1.23	1.23	98.77	95-100
20	8236	54.91	56.13	43.87	30-70
10	3250	21.67	77.80	22.20	10-35
4.75	2820	18.80	96.60	3.40	0-5

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Date : 20.04.2022

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Vishwanatha ,** Contractor, Bangalore.

Name of Work : Improvements of CC drains covering Slab in Krishnegowda Layout Cross Roads in Dasarahalli ward no 15

Date of Testing : 20.04.2022

Material : Sand - Masonry

Total wt. of aggregates in grms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	14	1.40	1.40	98.6	90-100
1.18	35	3.50	4.90	95.1	70-100
600 Micron	89	8.90	13.80	86.2	40-100
300 Micron	255	25.50	39.30	60.7	5-70
150 Micron	482	48.20	87.50	12.5	0-15

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Job No.: CACE/BBMP/VW/W.No.15/2021-22

Date : 20.04.2022

TEST REPORT OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Vishwanatha ,** Contractor, Bangalore.

Name of Work : Improvements of CC drains covering Slab in Krishnegowda Layout Cross Roads in Dasarahalli ward no 15

Steel Dia/Length : 8mm,10mm " Fe500 TMT Bars"

Reference to BIS codes : IS 1786:2008(RA 2013) High Strength Deformed Steel Bars and Wires for Concrete Reinforcement-Specification

: IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature

Date of test : 20.04.2022

S.No	Brand	Nominal size (dia in mm)	Mass per meter (kg/meter)	TENSILE STRENGTH			
				0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	TS/YS ratio	Elongation, percent on gauge length
1	TMT	8	0.396	552	635	1.15	14
2	TMT	10	0.618	564	656	1.16	15.5

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Job No.: CACE/BBMP/VW/W.No.15/2021-22

Date: 16.05.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Vishwanatha ,** Contractor, Bangalore.

Name of the work : Improvements of CC drains covering Slab in Krishnegowda Layout Cross Roads in Dasarahalli ward no 15

Sample ID : Cement Concrete For Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	09.05.2022	16.05.2022	8.168	335.2	14.90
2	09.05.2022	16.05.2022	8.152	346.5	15.40
3	09.05.2022	16.05.2022	8.146	352.8	15.68

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Job No.: CACE/BBMP/VW/W.No.15/2021-22

Date: 06.06.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Vishwanatha ,** Contractor, Bangalore.

Name of the work : Improvements of CC drains covering Slab in Krishnegowda Layout Cross Roads in Dasarahalli ward no 15

Sample ID : Cement Concrete For Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	09.05.2022	06.06.2022	8.185	502.2	22.32
2	09.05.2022	06.06.2022	8.169	495.6	22.03
3	09.05.2022	06.06.2022	8.172	484.6	21.54

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Job No.: CACE/BBMP/VW/W.No.15/2021-22 Date: 16.05.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Vishwanatha ,** Contractor, Bangalore.

Name of the work : Improvements of CC drains covering Slab in Krishnegowda Layout Cross Roads in Dasarahalli ward no 15

Sample ID : Cement Concrete For Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	09.05.2022	16.05.2022	8.168	335.3	14.90
2	09.05.2022	16.05.2022	8.184	346.5	15.40
3	09.05.2022	16.05.2022	8.156	352.8	15.68

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Job No.: CACE/BBMP/VW/W.No.15/2021-22

Date: 06.06.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Vishwanatha ,** Contractor, Bangalore.

Name of the work : Improvements of CC drains covering Slab in Krishnegowda Layout Cross Roads in Dasarahalli ward no 15

Sample ID : Cement Concrete For Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	09.05.2022	06.06.2022	8.169	512.2	22.76
2	09.05.2022	06.06.2022	8.184	508.2	22.59
3	09.05.2022	06.06.2022	8.152	484.9	21.55

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Job No.: CACE/BBMP/VW/W.No.15/2021-22 Date: 23.05.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Vishwanatha ,** Contractor, Bangalore.

Name of the work : Improvements of CC drains covering Slab in Krishnegowda Layout Cross Roads in Dasarahalli ward no 15

Sample ID : Cement Concrete for Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.05.2022	23.05.2022	8.168	336.3	14.95
2	16.05.2022	23.05.2022	8.175	352.3	15.66
3	16.05.2022	23.05.2022	8.192	331.2	14.72

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Job No.: CACE/BBMP/VW/W.No.15/2021-22 Date: 13.06.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Vishwanatha ,** Contractor, Bangalore.

Name of the work : Improvements of CC drains covering Slab in Krishnegowda Layout Cross Roads in Dasarahalli ward no 15

Sample ID : Cement Concrete for Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.05.2022	13.06.2022	8.168	502.2	22.32
2	16.05.2022	13.06.2022	8.174	516.3	22.95
3	16.05.2022	13.06.2022	8.152	484.9	21.55

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Job No.: CACE/BBMP/VW/W.No.15/2021-22

Date: 23.05.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Vishwanatha ,** Contractor, Bangalore.

Name of the work : Improvements of CC drains covering Slab in Krishnegowda Layout Cross Roads in Dasarahalli ward no 15

Sample ID : Cement Concrete for Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.05.2022	23.05.2022	8.168	345.2	15.34
2	16.05.2022	23.05.2022	8.184	332.6	14.78
3	16.05.2022	23.05.2022	8.152	352.3	15.66

Note:

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂ.
ಆ. ದಾಸರಹಳ್ಳಿ ಉಪ ವಿಭಾಗ
ಬಿಬಿಎಂಪಿ, ಬೆ.ಮಹಾ.ಪ
ಬೆಂಗಳೂರು-560073

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Ramaiah Layout, Nagasandra, Bangalore - 560 073.
Ph: 9591618639, GSTIN: 29CNWPD9510K1ZB, Email: civilaimconsultants@gmail.com

CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company

NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Job No.: CACE/BBMP/VW/W.No.15/2021-22

Date: 13.06.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Vishwanatha ,** Contractor, Bangalore.

Name of the work : Improvements of CC drains covering Slab in Krishnegowda Layout Cross Roads in Dasarahalli ward no 15

Sample ID : Cement Concrete for Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.05.2022	13.06.2022	8.174	501.2	22.28
2	16.05.2022	13.06.2022	8.156	516.3	22.95
3	16.05.2022	13.06.2022	8.168	484.9	21.55

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ಶ್ರೀ ವಿಶ್ವನಾಥ ಬಿನ ವಿಠಲ
ದಾಸರಹಳ್ಳಿ, ಬಿ.ಬಿ.ಎಂ.ಪಿ
ಬೆಂಗಳೂರು-560073

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Job No.: CACE/BBMP/VW/W.No.15/2021-22 Date: 06.06.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Vishwanatha ,** Contractor, Bangalore.

Name of the work : Improvements of CC drains covering Slab in Krishnegowda Layout Cross Roads in Dasarahalli ward no 15

Sample ID : Cement Concrete for Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.05.2022	06.06.2022	8.169	342.5	15.22
2	30.05.2022	06.06.2022	8.184	315.2	14.01
3	30.05.2022	06.06.2022	8.152	356.3	15.84

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Job No.: CACE/BBMP/VW/W.No.15/2021-22

Date: 27.06.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Vishwanatha ,** Contractor, Bangalore.

Name of the work : Improvements of CC drains covering Slab in Krishnegowda Layout Cross Roads in Dasarahalli ward no 15

Sample ID : Cement Concrete for Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.05.2022	27.06.2022	8.184	502.2	22.32
2	30.05.2022	27.06.2022	8.169	514.2	22.85
3	30.05.2022	27.06.2022	8.152	489.3	21.75

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Date: 06.06.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Vishwanatha ,** Contractor, Bangalore.

Name of the work : Improvements of CC drains covering Slab in Krishnegowda Layout Cross Roads in Dasarahalli ward no 15

Sample ID : Cement Concrete for Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.05.2022	06.06.2022	8.168	336.3	14.95
2	30.05.2022	06.06.2022	8.174	345.2	15.34
3	30.05.2022	06.06.2022	8.152	329.3	14.64

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Job No. : CACE/BBMP/VW/W.No.15/2021-22 Date: 27.06.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Vishwanatha ,** Contractor, Bangalore.

Name of the work : Improvements of C.C drains covering Slab in Krishnegowda Layout Cross Roads in Dasarahalli ward no 15

Sample ID : Cement Concrete for Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.05.2022	27.06.2022	8.184	505.2	22.45
2	30.05.2022	27.06.2022	8.165	516.3	22.95
3	30.05.2022	27.06.2022	8.146	488.9	21.73

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